A UHF operator at Farmington would be compelled to construct a more costly and complex facility simply to achieve parity with the existing VHF station at Farmington, KOBF, Channel 12.

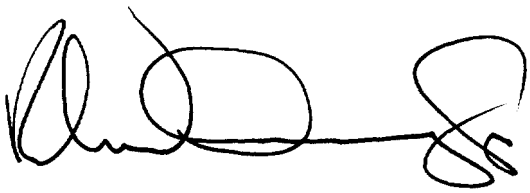
Ignoring the increased UHF construction cost, which could easily be three to five times the cost of constructing a Channel 3 facility, the power consumption of the UHF facility would be staggering in comparison to that of the VHF facility. The energy savings that could be achieved through operation of a VHF facility instead of a UHF facility should be given due consideration. A 50-kilowatt VHF television transmitter consumes approximately 500,000-kilowatt hours of electricity per year. A 120-kilowatt UHF television transmitter consumes approximately 1,700,000-kilowatt hours per year. At a kilowatt-hour cost of $0.07, the annual power cost for the VHF transmitter will be $35,000 compared to the annual power cost for the UHF transmitter of $119,000. It would be a waste of natural resources to operate a high-power UHF transmitter while a more energy efficient alternative lies fallow at Gallup.

As mentioned earlier, Farmington is served currently by one VHF station, KOBF(TV), Channel 12. Those fringe area viewers who have found it necessary to install an outdoor antenna to achieve adequate reception of KOBF likely have done so. Introduction of a new UHF service at Farmington would require those viewers to incur the expense of adding a second receiving antenna to avail themselves of the UHF broadcasts. Implementation of a new VHF service at Farmington would require no changes to existing viewer antenna systems.

There are twelve UHF TV translators and low power television stations authorized in the Farmington area. The allotment of a UHF channel to Farmington would displace at least one, and likely more, of these facilities. The number of secondary services affected would depend on the UHF channel allotted. If a new UHF channel were to be allotted to Farmington, that channel could be selected to minimize displacement of existing translators and LPTV stations. However,

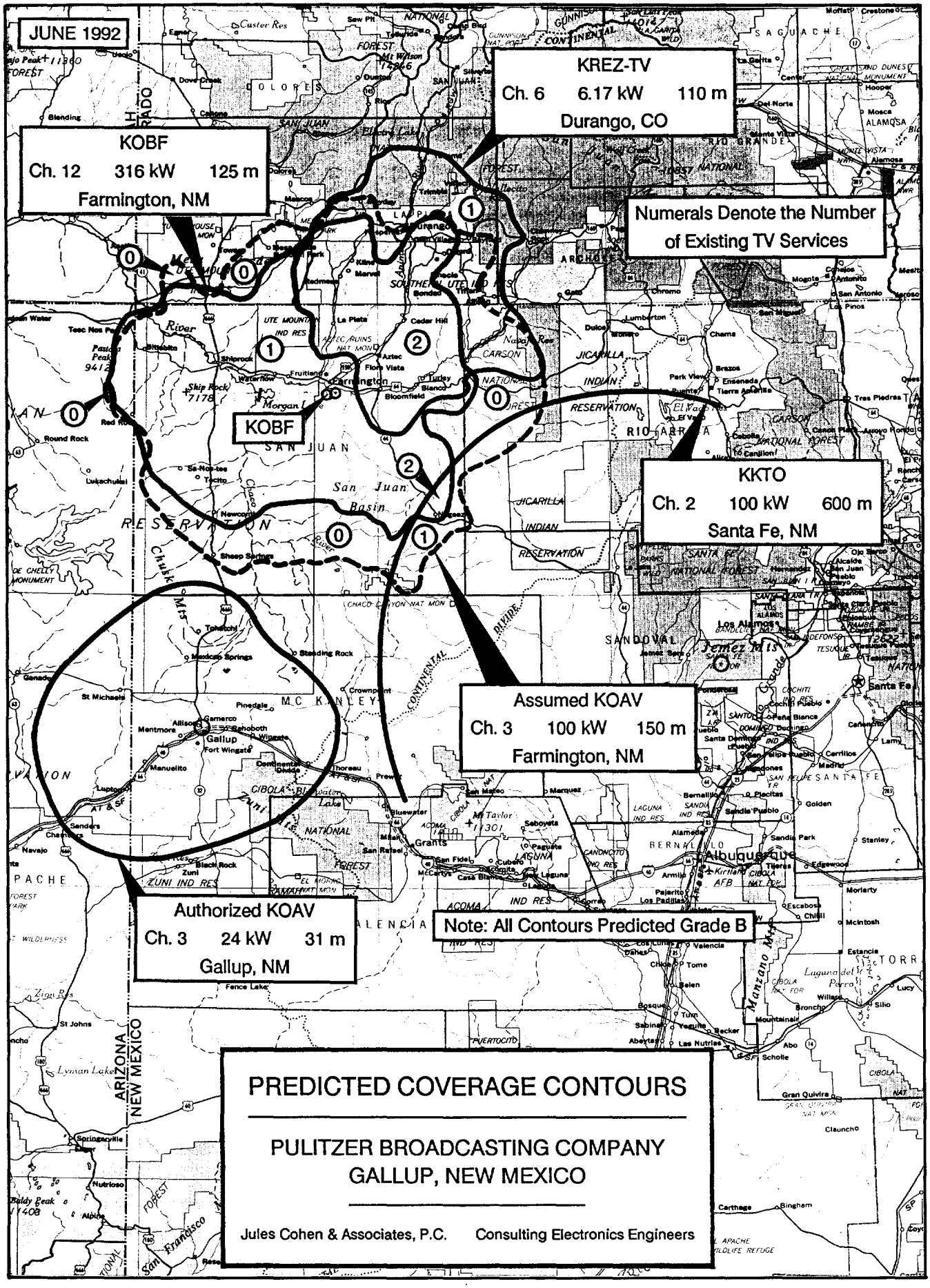
use of Channel 3 at Farmington would cause no displacement of the existing UHF secondary services at Farmington.

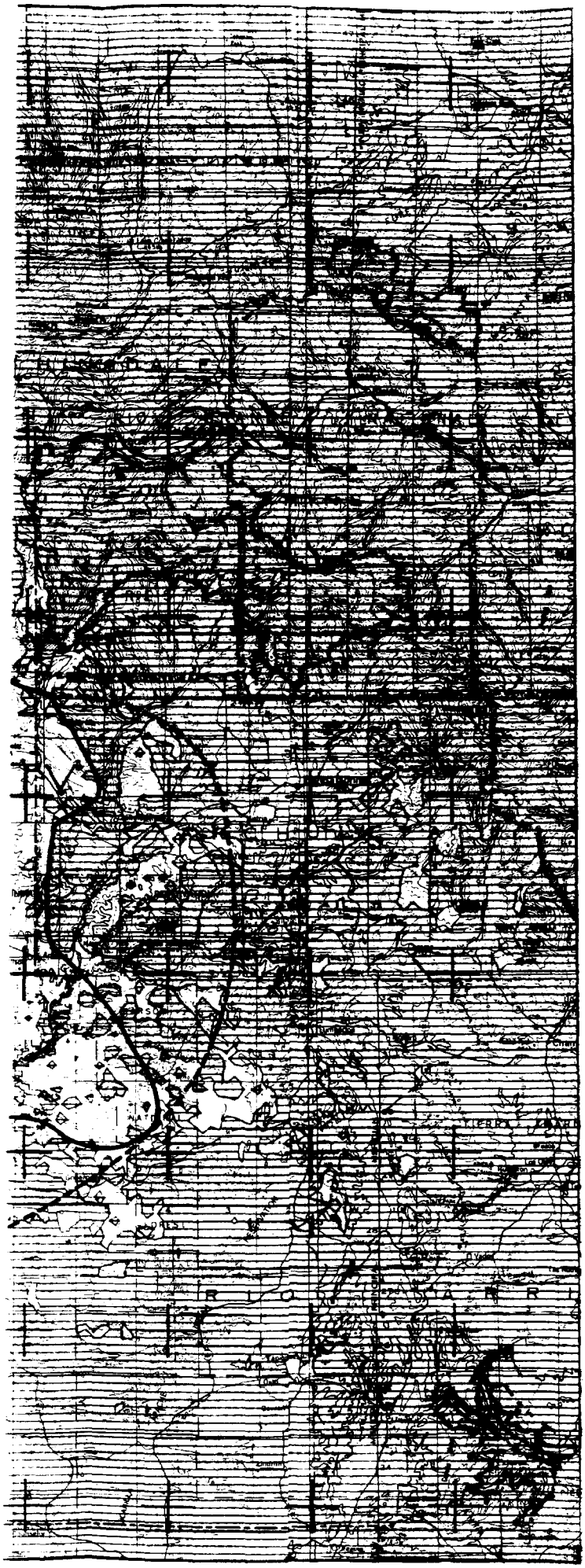
I declare under penalty of perjury that the foregoing is true and correct. Executed on June 8, 1992.



Robert W. Denny, Jr., P.E.

Figure 4


JUNE 1992
KREZ-TV
Ch. 6 6.17 kW 110 m
Durango, CO
KOBF
Ch. 12 316 kW 125 m
Farmington, NM
Numerals Denote the Number of Existing TV Services
KOBF
KKTO
Ch. 2 100 kW 600 m
Santa Fe, NM
Assumed KOAV
Ch. 3 100 kW 150 m
Farmington, NM
Authorized KOAV
Ch. 3 24 kW 31 m
Gallup, NM
Note: All Contours Predicted Grade B
PREDICTED COVERAGE CONTOURS
PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO
Jules Cohen & Associates, P.C. Consulting Electronics Engineers
ARIZONA
NEW MEXICO
MILES
KILOMETRES



AREA RECEIVING GRADE B OR BETTER SIGNAL STRENGTH *

STATION KREZ-TV
DURANGO, COLORADO
CH 6 6.17 KW 110 METERS

PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO

Jules Cohen & Associates, P.C. Consulting Electronics Engineers

* Computation based upon ITS irregular terrain model.

Key to Shaded Areas

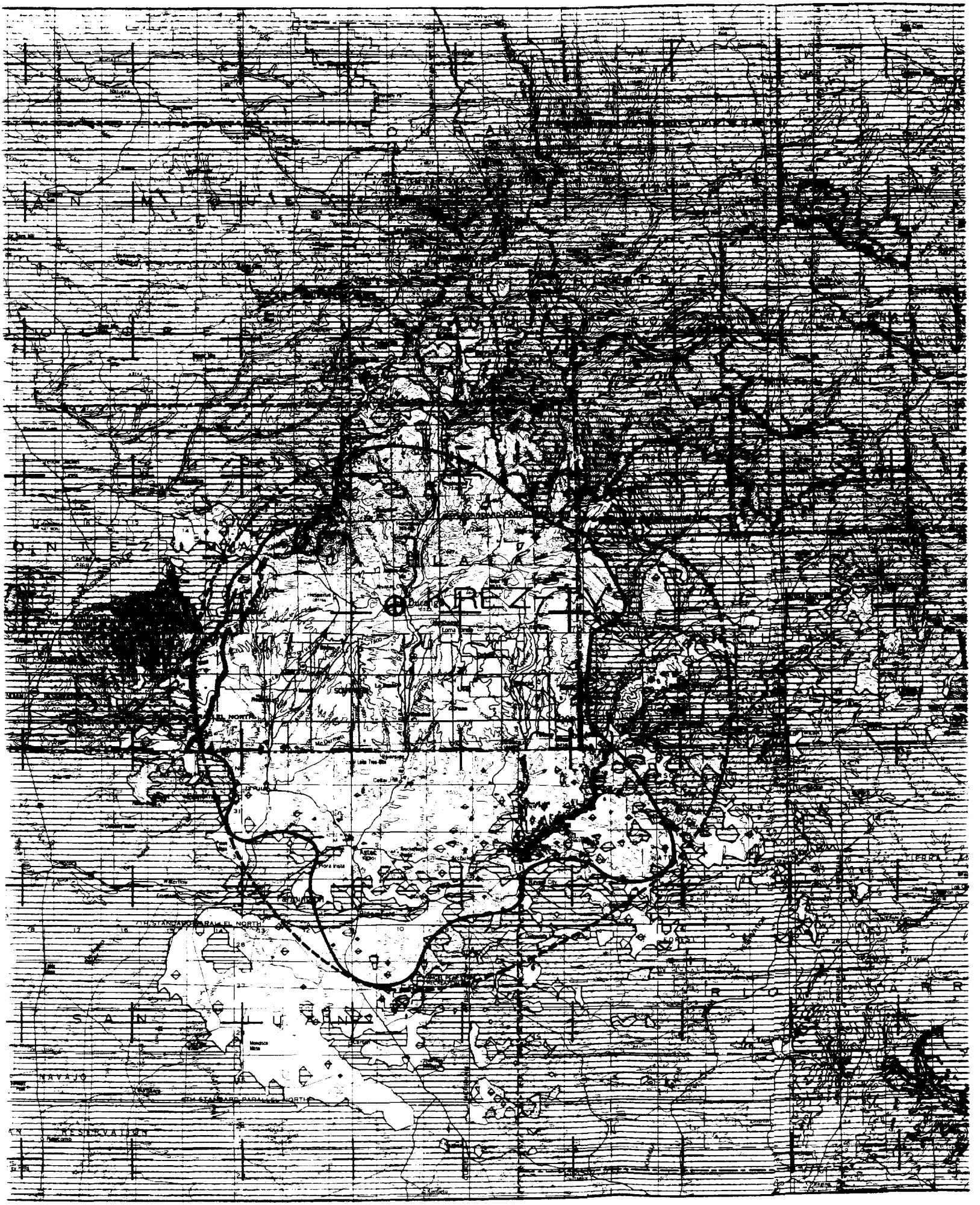
Predicted field strength Grade B (47 dBu) or better

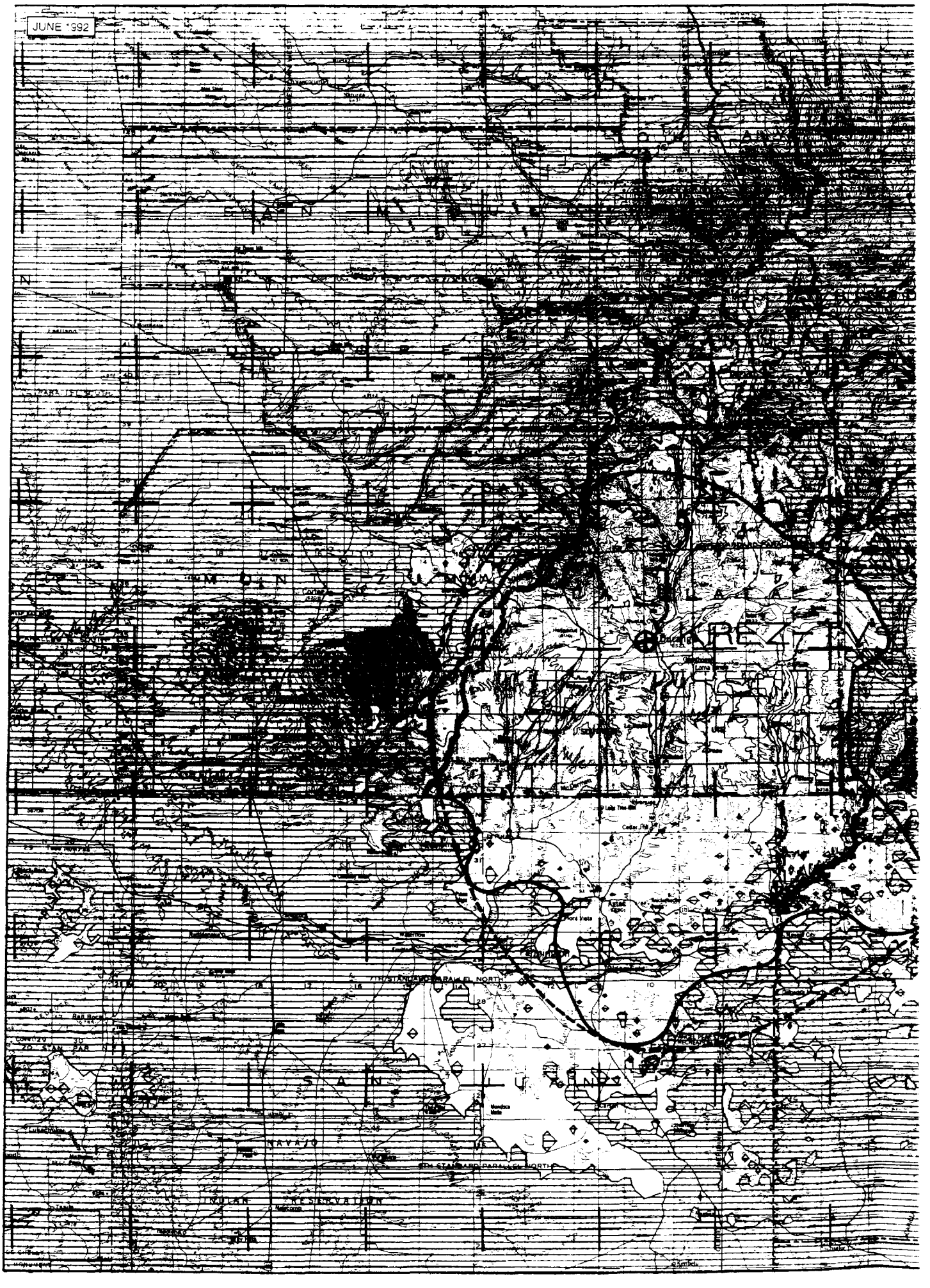
Predicted field strength less than Grade B

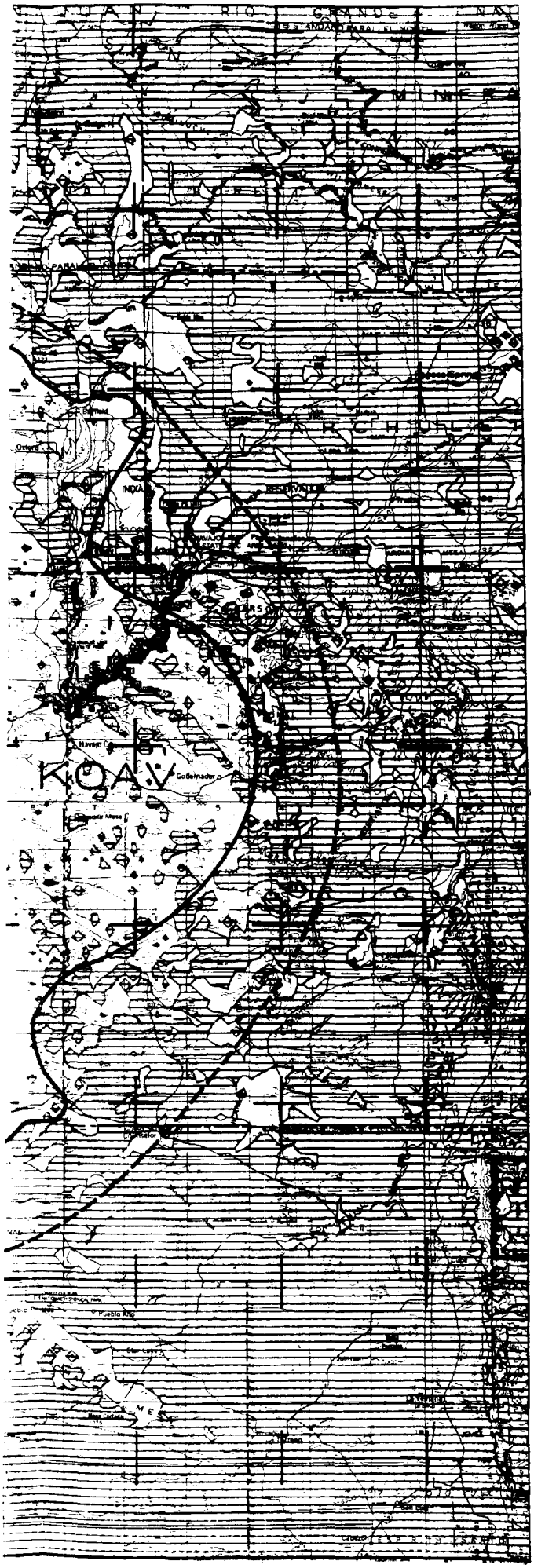
Key to Contours

Terrain limited 47 dBu Contour

FCC F(50,50) 47 dBu Contour


KRE47


JUNE 1992
SAN MIGUEL
SAN JUAN
MCKINLEY
CIBOLA
VALENCIA
BERNALILLO
SANDOVAL
SANTA FE
TORRANCE
LINCOLN
GUADALUPE
DE BACA
ROOSEVELT
CURRY
QUAY
UNION
HARDING
MORA
SAN MIGUEL
GUADALUPE
CURRY
ROOSEVELT
QUAY
UNION
HARDING
MORA
SAN JUAN
MCKINLEY
CIBOLA
VALENCIA
BERNALILLO
SANDOVAL
SANTA FE
TORRANCE
LINCOLN
DE BACA
CONEJOS
COSTILLA
LAS ANIMAS
BACA
PROWERS
KIOWA
CROWLEY
OTERO
BENT
LINCOLN
EL PASO
PUEBLO
CHEYENNE
KIT CARSON
LINCOLN
CROWLEY
OTERO
BENT
PUEBLO
CHEYENNE
KIT CARSON
LAS ANIMAS
BACA
PROWERS
KIOWA
CONEJOS
COSTILLA
EL PASO
7TH STANDARD PARALLEL NORTH
6TH STANDARD PARALLEL NORTH
NAVAJO
INDIAN RESERVATION
Cedar Hill
Lake Tres Ritos
Cedar Hill
Mora Vista
Ranchitos
Rock Springs
Rock Springs
Monument Valley
Monument Valley



AREA RECEIVING GRADE B OR BETTER SIGNAL STRENGTH *

ASSUMED STATION KOAV
FARMINGTON, NEW MEXICO
CH 3 100 KW 150 METERS

PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO

Jules Cohen & Associates, P.C. Consulting Electronics Engineers

* Computation based upon ITS Irregular terrain model.

Key to Shaded Areas

Predicted field strength Grade B (47 dBu) or better

Predicted field strength less than Grade B

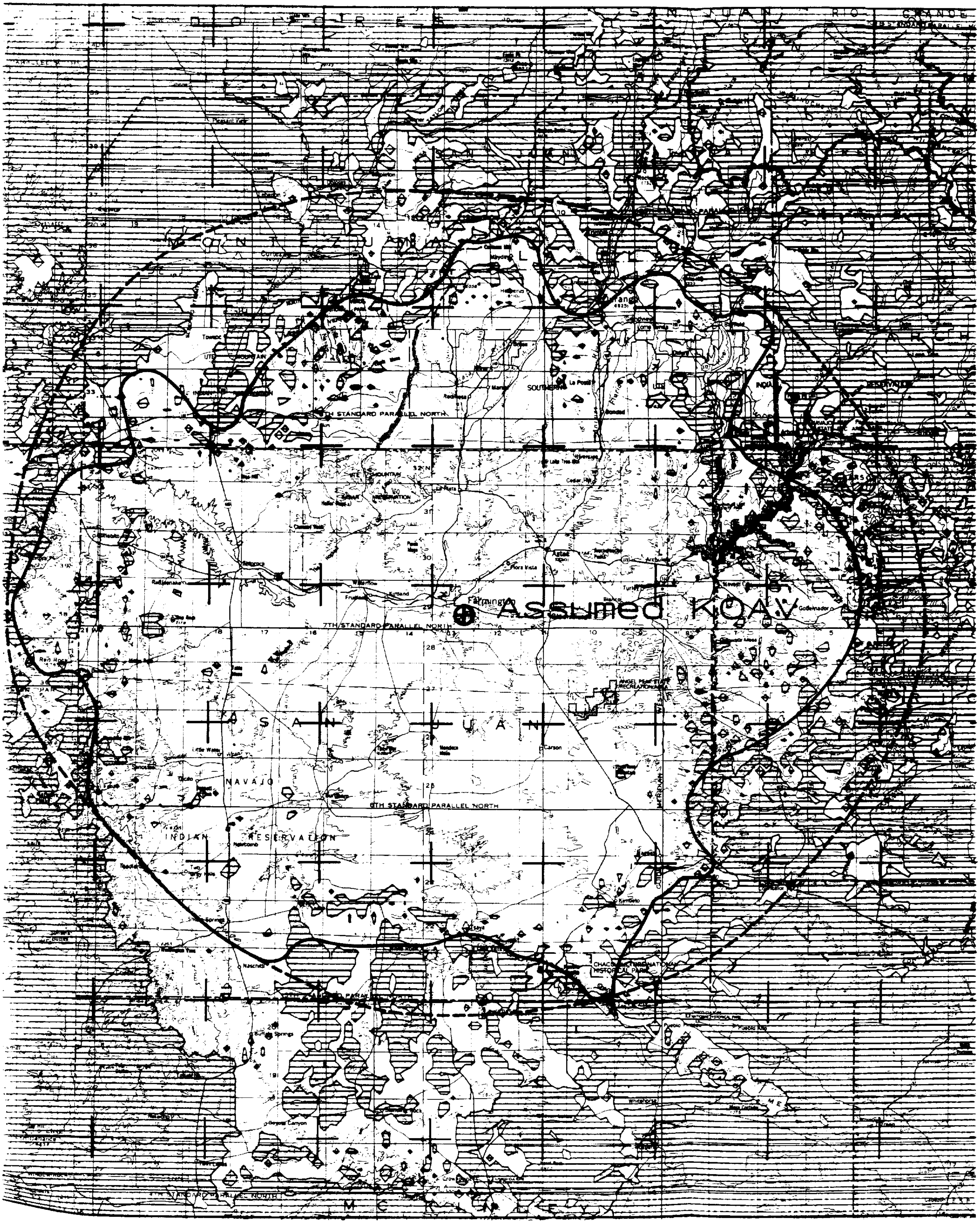
Key to Contours

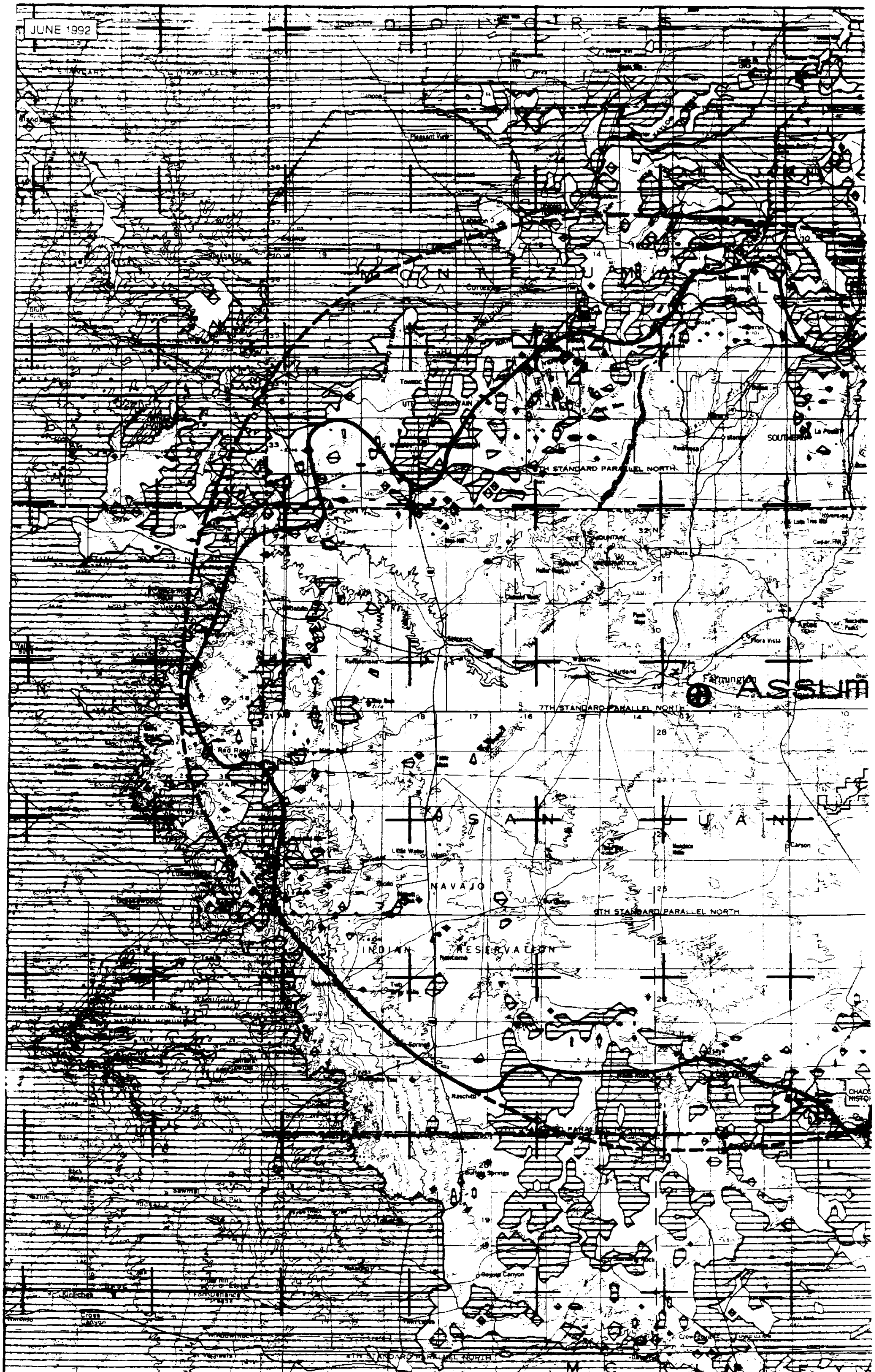
Terrain limited 47 dBu Contour

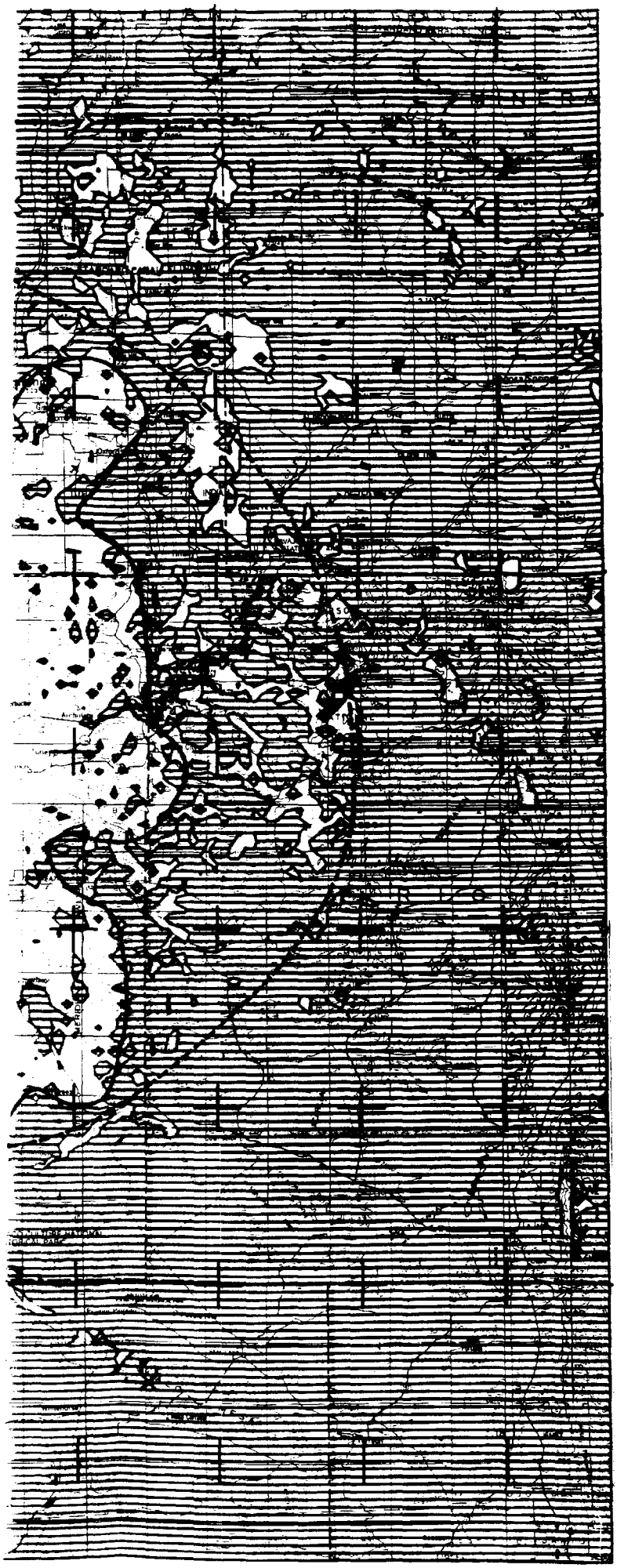
FCC F(50,50) 47 dBu Contour

Area and Population

Region of Interest	Area (sq. km.)	1990 Census Data (Population)
Entire area depicted predicted to receive Grade B or better signal strength	24,130	116,000
Area within terrain limited 47 dBu Contour	16,750	114,953


Assumed KOAV
Farmington
Aztec
Bloomfield
Kirtland
Fruitland
Waterflow
Shiprock
Cortez
Durango
SAN JUAN
NAVAJO
INDIAN
RESERVATION
7TH STANDARD PARALLEL NORTH
6TH STANDARD PARALLEL NORTH
8TH STANDARD PARALLEL NORTH
Red Rock
Naschitti
Carson
Blanco
Gobernador
Crownpoint
ANGEL PEAK STATE RECREATION AREA
CHACO CANYON NATIONAL HISTORICAL PARK


JUNE 1992
7TH STANDARD PARALLEL NORTH
Farmington
ASSUM
S A N J U A N
NAVAJO
INDIAN RESERVATION
6TH STANDARD PARALLEL NORTH
Kirtland
Fruitland
Aztec
Flora Vista
Red Rock
Little Water
Newcomb
Naschitti
Carson
CANYON DE CHELLY NATIONAL MONUMENT
Cross Canyon



AREA RECEIVING GRADE B OR BETTER SIGNAL STRENGTH *

STATION KOBF
FARMINGTON, NEW MEXICO
CH 12 316 KW 125 METERS

PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO

Jules Cohen & Associates, P.C. Consulting Electronics Engineers

* Computation based upon ITS irregular terrain model.

Key to Shaded Areas

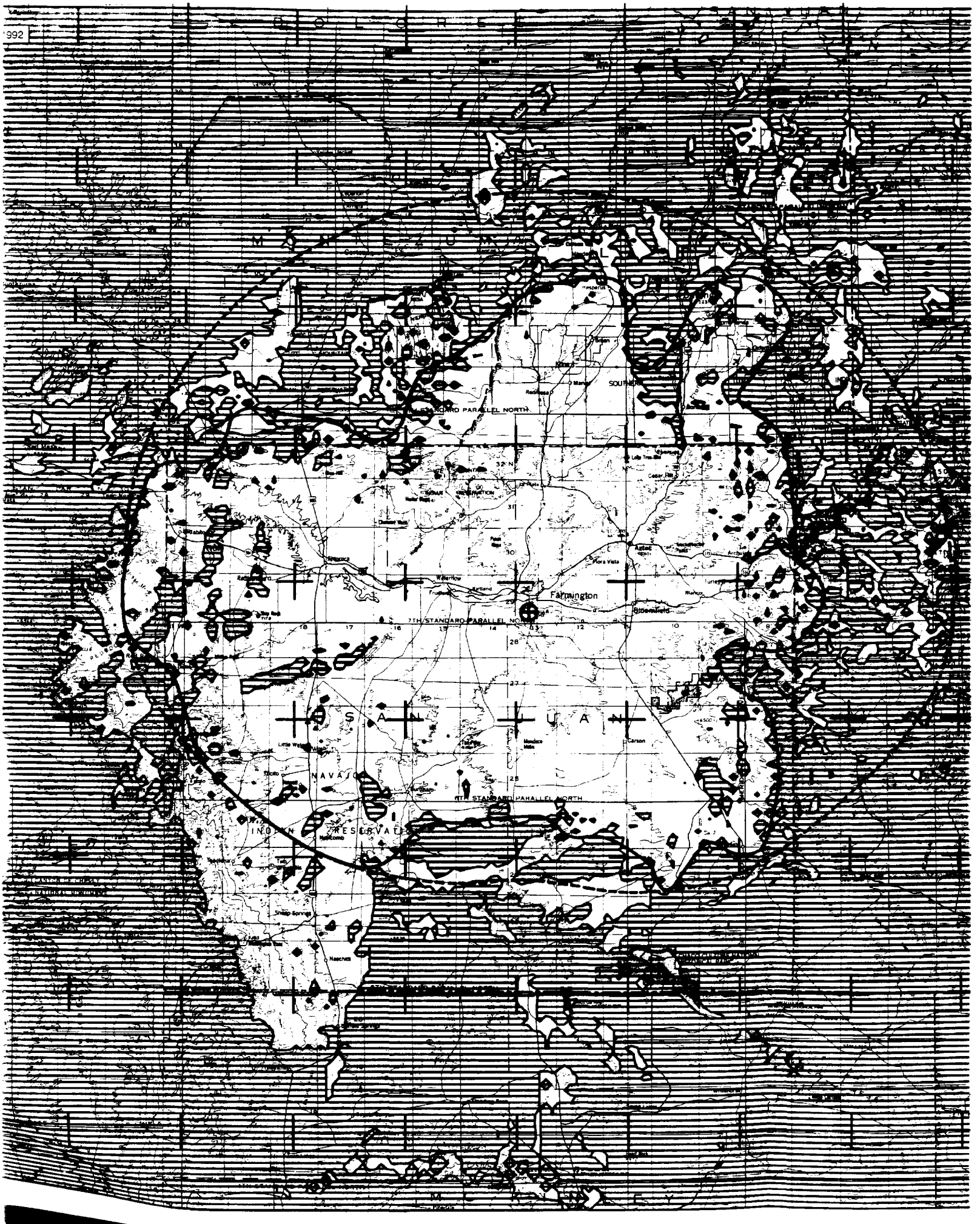
Predicted field strength Grade B (56 dBu) or better

Predicted field strength less than Grade B

Key to Contours

Terrain limited 56 dBu Contour

FCC F(50,50) 56 dBu Contour


San Juan
Farmington
7TH STANDARD PARALLEL NORTH
NAVAJO
INDIAN
RESERVATION

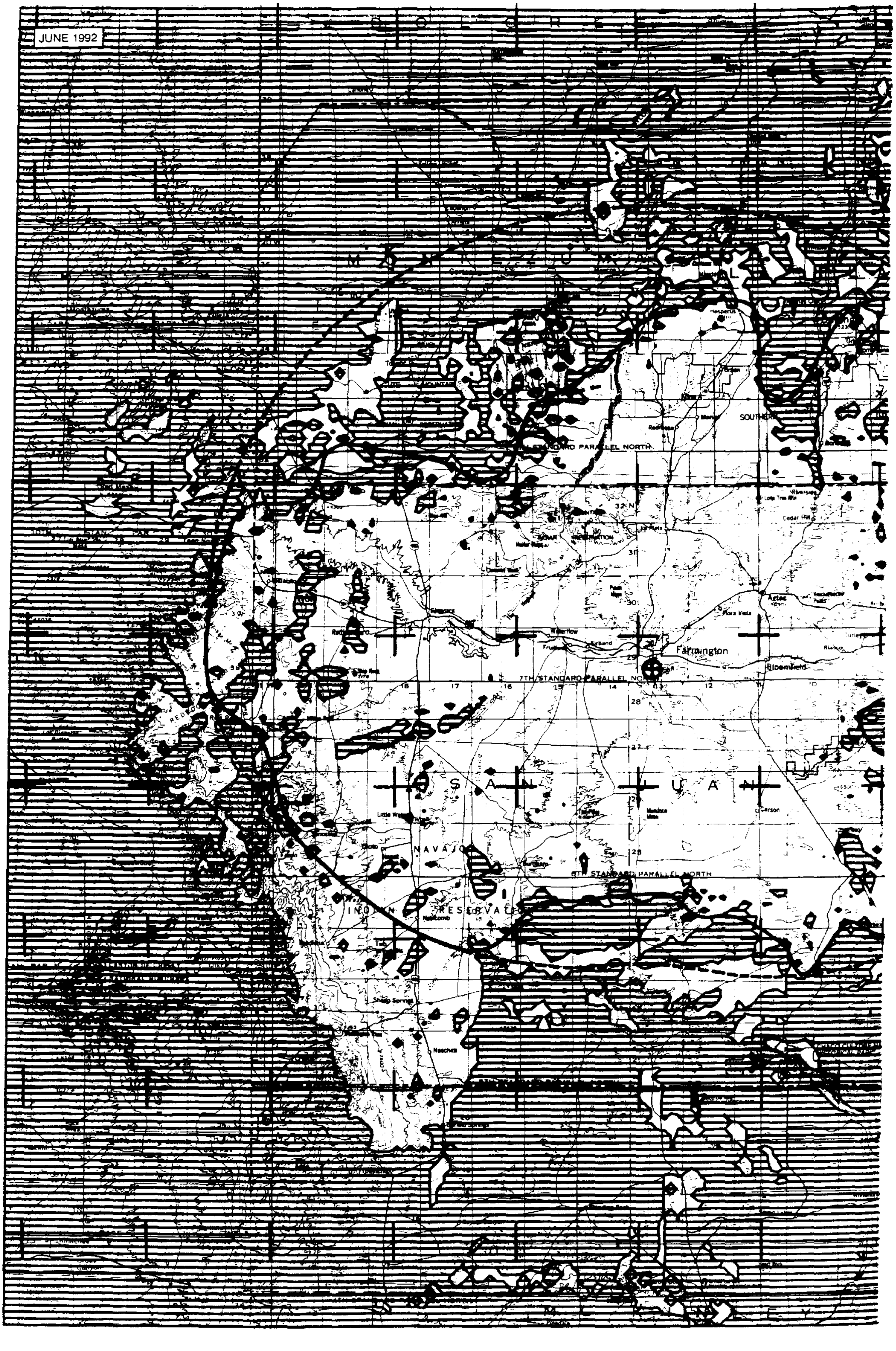
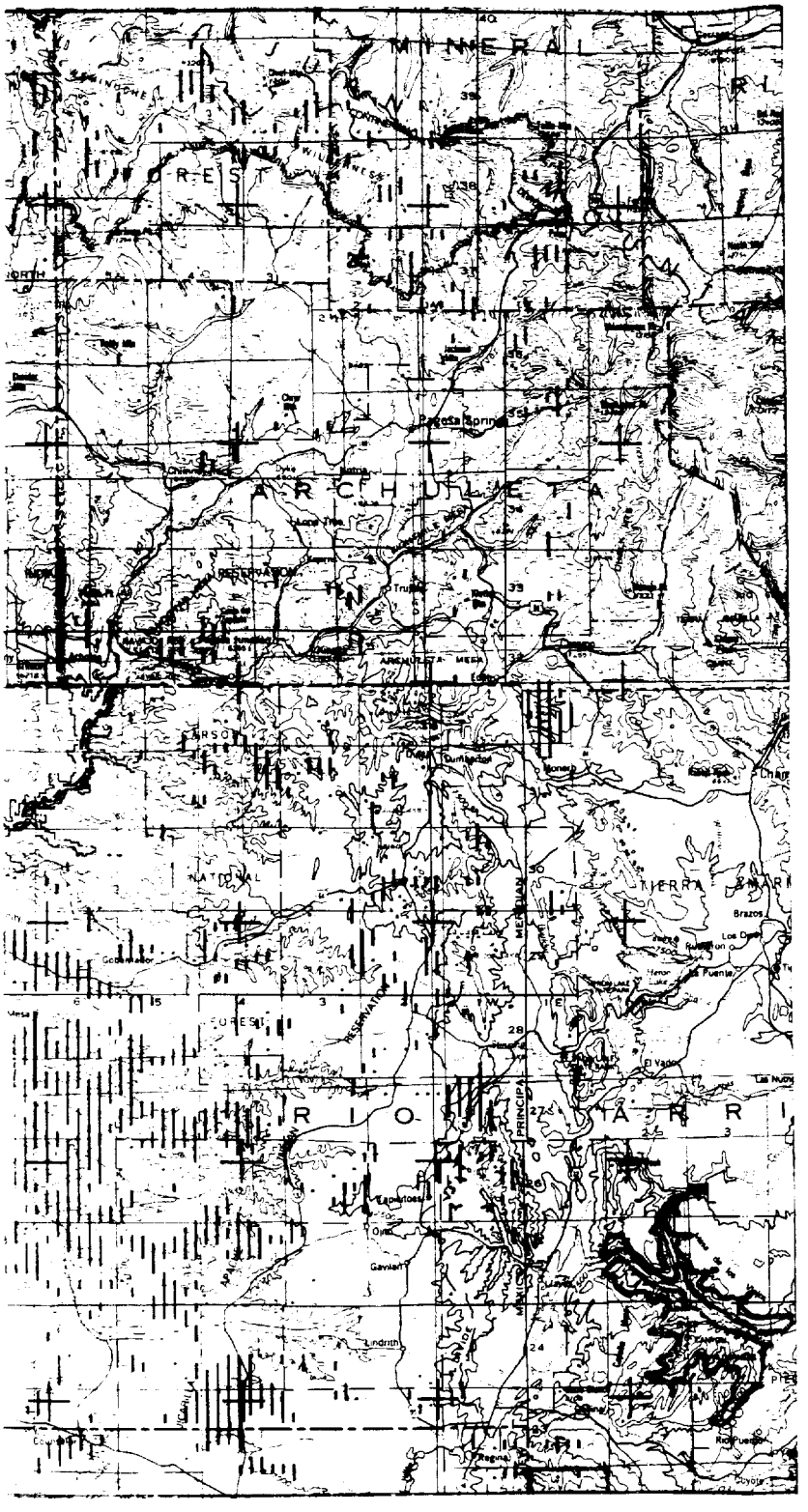

JUNE 1992
Farmington
Aztec
Bloomfield
Flora Vista
Waterflow
7TH STANDARD PARALLEL NORTH
8TH STANDARD PARALLEL NORTH
NAVAJO
RESERVATI
S A N
U A N
Hesperus
Carson
Sheep Springs
Naschitti
Newcomb
Little Water

Figure 5



AREA RECEIVING GRADE B OR BETTER SIGNAL STRENGTH FROM ASSUMED KOAV AND LESS THAN GRADE B SIGNAL STRENGTH FROM KREZ-TV *

ASSUMED STATION KOAV
FARMINGTON, NEW MEXICO
CH 3 100 KW 150 METERS

STATION KREZ-TV
DURANGO, COLORADO
CH 6 6.17 KW 110 METERS

PULITZER BROADCASTING COMPANY
GALLUP, NEW MEXICO

Jules Cohen & Associates, P.C. Consulting Electronics Engineers

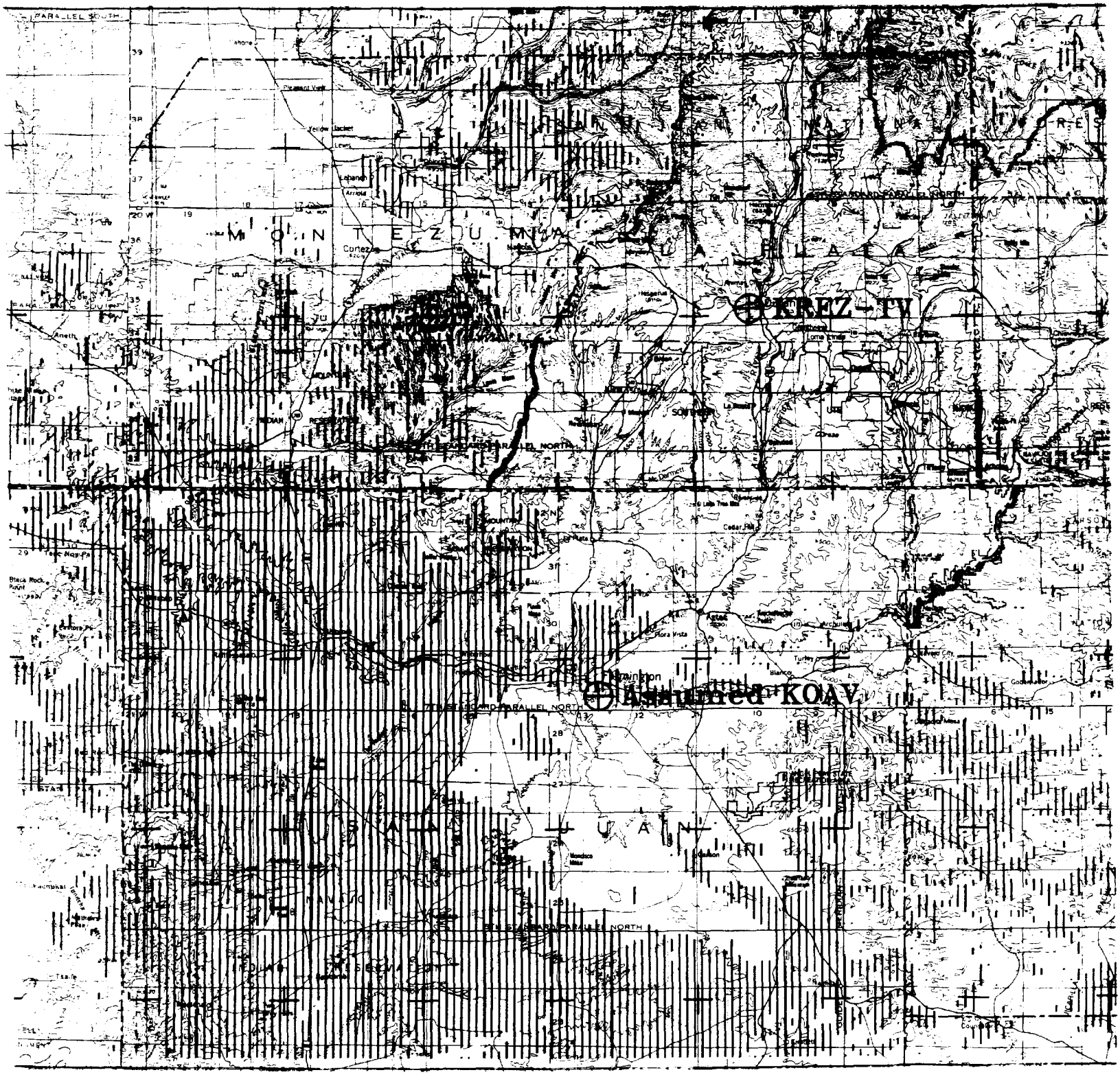
* Computation based upon ITS irregular terrain model.

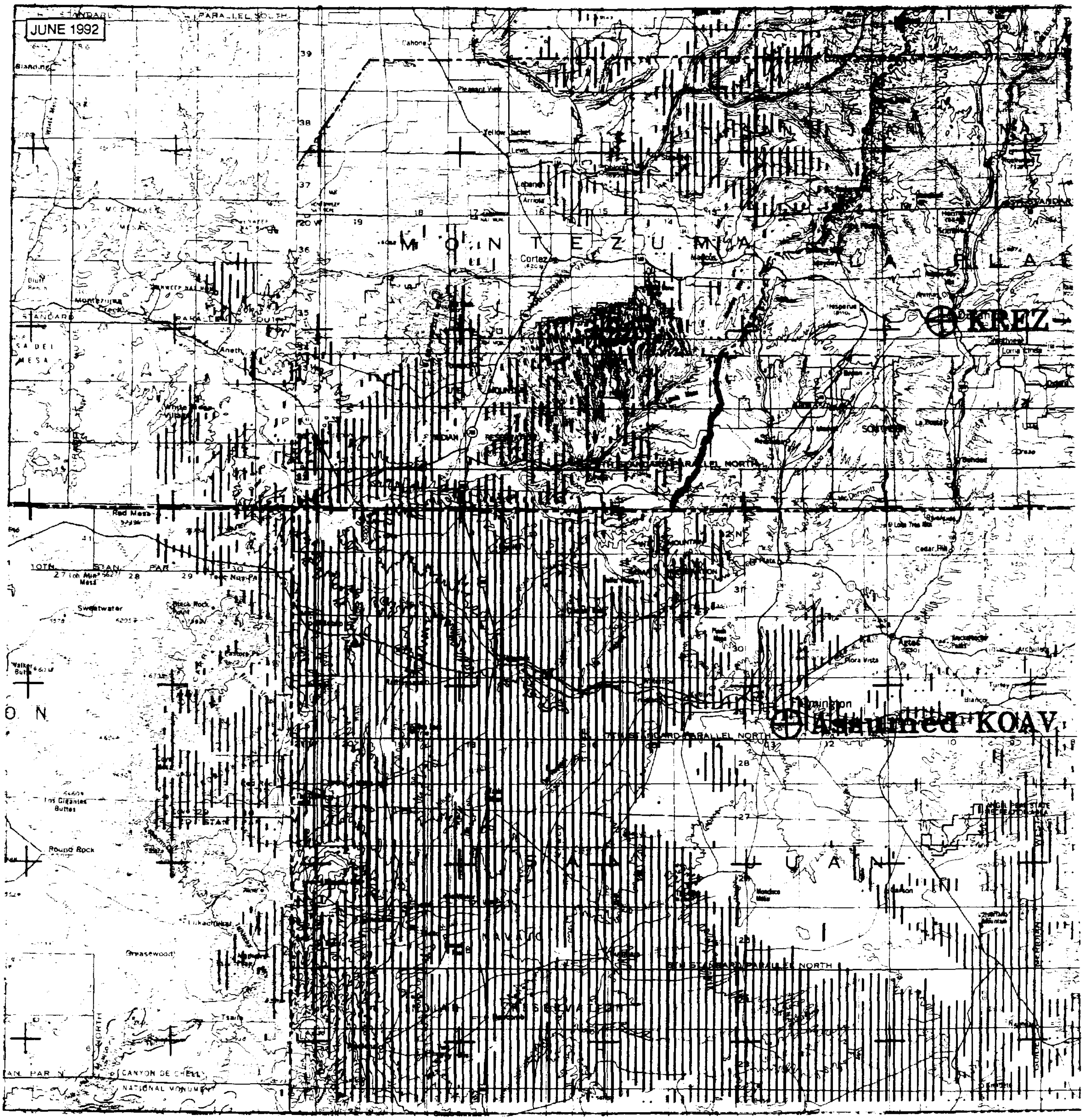
Key to Shaded Area

Predicted field strength from assumed KOAV Grade B (47 dBu) or better and predicted field strength from KREZ-TV less than Grade B.

Area and Population

Region of Interest	Area (sq. km.)	1990 Census Data (Population)	(Households)
Area receiving Grade B or better signal strength	12,545	45,000	14,000


KREZ-TV
KOAV


JUNE 1992
M O N T E Z U M A
Cortez
KREZ
Assumed KOAV
Farmington
Aztec
Red Mesa
Sweetwater
Los Gigantes Buttes
Round Rock
Greasewood
Aneth
Montezuma Creek
Blanding
Cahone
Pleasant View
Yellow Jacket
Flora Vista
Cedar Hill
Blanco
Loma Linda
Mancos Mesa
CANYON DE CHELLY
NATIONAL MONUMENT
STANDARD PARALLEL NORTH